THE MARYLAND Fruit Grower

Vol. 5 No. 12

Official Program Number

•

THIRTY EIGHTH Annual Meeting

of

The Maryland State Horticultural Society

JANUARY 7-8-9, 1936

HOTEL ALEXANDER

Hagerstown, Maryland

D·E·C·E·M·B·E·R • 1·9·3·5

For PEACHES and PEARS
USE SCALECIDE
In the Fall

Best control of the two major pests of peaches and pears —Peach Leaf Curl and Pear Psylla—is obtained by spraying in the Fall. Use Scalecide 1 to 15 at anytime the temperature is warmer than 40°. It is futile to spray for Psylla in the Spring after they have laid their eggs. Scalecide has a most remarkable record on pears. Many pear orchards owe their vigor, productiveness and longevity to the annual application of Scalecide. Write for new folder "How Scalecide Produces Amazing Response in the Pear Orchard".

For Peach Leaf Curl, best results are obtained by combining Sulfocide 1 to 150 or 200 with the Scalecide spray. The Scalecide carries the sulfur into places not often reached without this combination. Write for new folder "Peach Trees Need Scalecide".

USE PRATT'S TAR OILS

Straitar or Tar-o-wash

In the Fall for Rosy Aphis eggs

Fall application of Straitar and Tar-o-wash is recommended for Rosy Aphis eggs and other pests, because it is easier to do a 100% job in the absence of high winds, the ground is firmer and the great Spring rush is avoided. Straitar and Tar-o-wash have an enviable record of safety and effectiveness. They are the latest word in tar oil sprays. Write for folder "Uses and Features of Pratt's Oil Sprays".

for EVERY NEED
PRATT'S
OIL SPRAYS
for EVERY PURSE

B. G. PRATT COMPANY

Dept. "F"

50 Church Street New York, N. Y.

THE MARYLAND Fruit Grower

Vol. 5 No. 12

Official Program Number

•

THIRTY EIGHTH Annual Meeting

of

The Maryland State Horticultural Society

JANUARY 7-8-9, 1936

HOTEL ALEXANDER

Hagerstown, Maryland

D·E·C·E·M·B·E·R • 1·9·3·5

Apple and Peach

AT THE BEGINNING of the season we had our usual supply of good trees, including the New Double Red Sports in Apples. We still have some in most varieties and sizes but the demand has been greater than usual and the supply now available for Spring planting is less than normal. Some Nurseries have only a small supply at the beginning of the season have sold completely. You can help us serve you best by placing your order early.

Send us your planting list for prices
or see our local representative.

NEW DOUBLE RED APPLES AVAILABLE

YORKING—*The York Supreme.* The chief of the New (*U. S. Patent No.* 125) Red Sports, having everything demanded in a York, being a solid, bright red, every Apple coloring solid red two weeks ahead of the Common York. Guard against imitations and so-called "Red Yorks" by insisting on Yorking, The Genuine Red York, which has been honored and protected by U. S. Patent No. 125.

NEW RED DELICIOUS
NEW RED STAYMAN
NEW RED JONATHAN
RED ROME
ALSO LOWRY
AND TURLEY

PEACH

From a block of 300,000 vigorous, well rooted Peach we still have a good assortment, but our Peach are for sale and we may not have at planting time. By permitting us to book you now, you protect yourself and help us render better service.

WAYNESBORO NURSERIES, INC.

(*Operating Titus Nursery Co. and Boxwood Gardens*)

WAYNESBORO, VIRGINIA

● Ansbacher dependability is ever new to those who have yet to experience it. But it is as old as the House Of Ansbacher itself. For over eighty years it has been "on the record," writ bold and large for growers to see and to know. Pioneer farmers knew Ansbacher's as America's first insecticide, and in their era its dependability stood out prominently and alone. Thus there has always been not only this quality leadership in the things that are, but a deeply-rooted interest in the better things that might be created. Towards this end, painstaking research and an ever-broadening practical knowledge of growers' needs have contributed the many advanced Ansbacher products which offer proven advantages. Leading commercial growers testify to this, and it will pay you, as it has paid them, to become better acquainted with such dependable aids to better harvests as the patented Oxo Bordeaux, Ansbor, Sulcoloid, Ansbacher Oils, Lead Arsenate — in fact all of this broad range of Sprays, Dusts, and Seed Treatments.

Ask for your copy of "Spraying For Results"

ANSBACHER-HAGERSTOWN CHEMICAL CORPORATION
Hagerstown, Md.

ANSBACHER-SOUTHERN CHEMICAL CORPORATION
Winchester, Va.

ANSBACHER-SIEGLE CORPORATION
Brooklyn, N. Y.

DEPENDABILITY

Many Have Claimed It...

But -

Ansbacher Has Proved It

Apple and Peach

AT THE BEGINNING of the season we had our usual supply of good trees, including the New Double Red Sports in Apples. We still have some in most varieties and sizes but the demand has been greater than usual and the supply now available for Spring planting is less than normal. Some Nurseries have only a small supply at the beginning of the season have sold completely. You can help us serve you best by placing your order early.

Send us your planting list for prices
or see our local representative.

NEW DOUBLE RED APPLES AVAILABLE

YORKING—*The York Supreme.* The chief of the New (*U. S. Patent No.* 125) Red Sports, having everything demanded in a York, being a solid, bright red, every Apple coloring solid red two weeks ahead of the Common York. Guard against imitations and so-called "Red Yorks" by insisting on Yorking, The Genuine Red York, which has been honored and protected by U. S. Patent No. 125.

NEW RED DELICIOUS
NEW RED STAYMAN
NEW RED JONATHAN
RED ROME
ALSO LOWRY
AND TURLEY

PEACH

From a block of 300,000 vigorous, well rooted Peach we still have a good assortment, but our Peach are for sale and we may not have at planting time. By permitting us to book you now, you protect yourself and help us render better service.

WAYNESBORO NURSERIES, INC.

(Operating Titus Nursery Co. and Boxwood Gardens)

WAYNESBORO, VIRGINIA

● Ansbacher dependability is ever new to those who have yet to experience it. But it is as old as the House Of Ansbacher itself. For over eighty years it has been "on the record," writ bold and large for growers to see and to know. Pioneer farmers knew Ansbacher's as America's first insecticide, and in their era its dependability stood out prominently and alone. Thus there has always been not only this quality leadership in the things that are, but a deeply-rooted interest in the better things that might be created. Towards this end, painstaking research and an ever-broadening practical knowledge of growers' needs have contributed the many advanced Ansbacher products which offer proven advantages. Leading commercial growers testify to this, and it will pay you, as it has paid them, to become better acquainted with such dependable aids to better harvests as the patented Oxo Bordeaux, Ansbor, Sulcoloid, Ansbacher Oils, Lead Arsenate — in fact all of this broad range of Sprays, Dusts, and Seed Treatments.

Ask for your copy of "Spraying For Results"

ANSBACHER-HAGERSTOWN CHEMICAL CORPORATION
Hagerstown, Md.

ANSBACHER-SOUTHERN CHEMICAL CORPORATION
Winchester, Va.

ANSBACHER-SIEGLE CORPORATION
Brooklyn, N. Y.

DEPENDABILITY

Many Have Claimed It...

But -

Ansbacher Has Proved It

Program

THIRTY-EIGHTH ANNUAL MEETING
The Maryland State Horticultural Society

Hotel Alexander, Hagerstown, Maryland

Tuesday, Wednesday and Thursday, January 7, 8 and 9, 1936

Meetings Beginning Tuesday, January 7, at 1:30 P. M.
All Meetings in the Ballroom of the Hotel Alexander

TUESDAY AFTERNOON, JANUARY 7th

1:30 p. m.

Call to Order
President Fulton W. Allen, Salisbury, Maryland

Report of the Secretary-Treasurer
A. F. Vierheller, College Park, Maryland

President's Address
Fulton W. Allen, Salisbury, Maryland

2:00 p. m.

The Relation of Fruit Thinning to Size and Quality of Fruit, and the Bearing Habits of Apple Trees
Lewis A. Fletcher, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C.

3:00 p. m.

Cover Crops for the Peach Orchard: Their Handling and Effect on the Trees and Fruit
F. P. Cullinan, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C.

4:00 p. m.

Inspection of Exhibits

TUESDAY NIGHT PROGRAM ON PAGE 8

Annual Dinner Wednesday Evening—Get Your Tickets

Exhibits of general orchard supplies, spray materials, packing materials, fertilizers, etc., will be shown in the Sample Room of the Hotel, located on the ground floor.

Spray machinery and orchard tillage tools will be exhibited at the garage of the Hagerstown Auto Parts Co., 35 E. Washington St., a few doors from the Hotel.

Educational exhibits, fruit variety show, etc., under auspices of the University of Maryland Experiment Station and Extension Service will be found on the Mezzanine Floor of the Hotel.

Time of the various discussions as shown in the program is not exact. Be on time to avoid missing any of the program features.

START RIGHT—READ EVERY ADVERTISEMENT NOW

McCormick-Deering

ORCHARD TRACTORS

and

T20 TRACTORS

with

ORCHARD TOOLS

For Better Orchards

SOLD AND SERVICED EVERYWHERE

by

McCormick-Deering Dealers

International Harvester Company

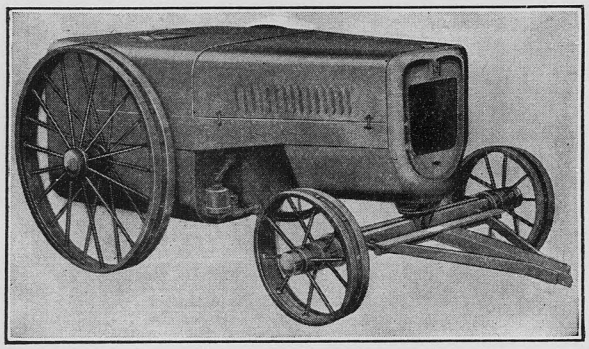
of AMERICA

BALTIMORE, MARYLAND

Genuine ***Repairs***

"BEAN"

Sprayers and Equipment



DESIGN . . . VALUES
PROTECTION . . . ECONOMY
SALES

This leadership is your assurance of protection for your crop both from the standpoint of good crops and lower spraying costs.

The sprayer that does the highest type of spraying with the least effort and expense is the one that is the cheapest.

Bean Royal Armored Sprayers have been known to save as much as one-third on spray material alone and at the same time give better results.

Ask for 1936 General Catalog

JOHN BEAN MFG. CO.

DIVISION FOOD MACHINERY CORPORATION

LANSING, MICHIGAN

We are not . . .

Entomologists or Market Gardeners

But . . .

We Carry in Stock, Sell, and Service

"B E A N"

Sprayers and Packing House Equipment

"CATERPILLAR"

Tractors

JOHN "DEERE"

Tractors and Farm Machinery

"P E A S E"

Ladders

LUPTON ORCHARD SERVICE CO.

PHONE 1100

WINCHESTER - - - VIRGINIA

« R T R »

Paper Packing Supplies

•

Try the

RTR BASKET CUSHION

. . . and learn

why so many apple and peach packers use them.

•

RICE, TREW & RICE CO.

Biglerville, Penna.

SHERWIN-WILLIAMS
SPRAY AND DUST
MATERIALS

. . . For Better Apples and Greater Profit . . .

Use S. W. DRY LIME SULFUR

No Russet No Foliage Injuries No Scab
Fine Color Fine Finish

S. W. ARSENATE OF LEAD insures a higher deposit on fruit, gives less burning and a maximum killing power.

S. W. MULSOID SULFUR gives high efficiency in the control of Brown Rot on Peaches

●

. . . A Spray and a Dust for every purpose . . .

SHERWIN-WILLIAMS CO.

BALTIMORE, MD.

PROGRAM—(Continued)

TUESDAY NIGHT, JANUARY 7th

7:00 p. m.

The Relation of Water to the Occurrence of Fruit Corking, Breakdown and Cracking of the Apple

J. R. Magness, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C.

8:00 p. m.

Why Do We Fail to Control Apple Scab?

P. D. Peterson, Research Pathologist, Freeport Sulphur Company, New York, N. Y.

WEDNESDAY MORNING PROGRAM ON PAGE 12

Annual Dinner Wednesday Evening—Get Your Tickets

The Society welcomes new members. Annual dues are but one dollar a year, for which members receive the Annual Proceedings, and the "Maryland Fruit Grower", the monthly printed news-letter. The Society holds an annual summer field meeting, in addition to the annual winter meeting. You should become a member.

NOTES

Koppers Flotation Sulphur

Is the Fungicide that Does Both

A damaged leaf is a crippled leaf and crippled leaves cannot produce the necessary food to make a large crop of No. 1 apples or peaches.

The fungicide you choose must do more than protect apples and peaches against scab and brown rot—it must also save your leaves from damage.

Koppers Flotation Sulphur does both. Its ultra-microscopic fineness and freedom from caustic will protect without injury. Use it and assure yourself finer finish and more of the profitable No. 1 grade fruit.

The White Tar Co. of N. J., Inc.
KEARNY, NEW JERSEY
a subsidiary of The Koppers Company

NONE GENUINE WITHOUT THIS TRADEMARK
KOPPERS
FLOTATION SULPHUR

THE WHITE TAR CO. OF NEW JERSEY, INC.
KEARNY, N. J.

Please send me a copy of your descriptive leaflet.

Your Name .....

Address .....

I Have ..... Trees
(give number)

MECHLING'S
Microscopic Wettable Sulphur

An unexcelled summer fungicide made from Air Floated Dusting Sulphur.

SCALE OIL

No better control for aphis, red mite and scale has yet been invented.

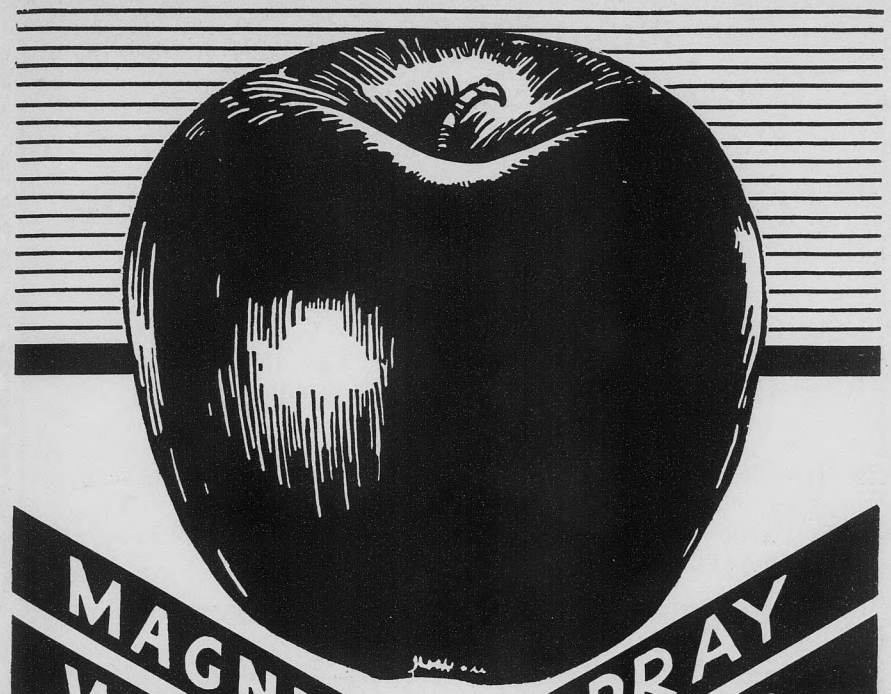
●

SULROTE

The perfect non-poisonous dust.

Every chemical needed for spraying and dusting

MECHLING BROS. CHEMICAL COMPANY
CAMDEN, NEW JERSEY



MAGNETIC WETTABLE SPRAY SULPHUR

...its pure ...its fine

If you want fruit that is free from blemish and disease, buy "Magnetic Spray" and you will have efficient and economical control without the risk of injury to your trees or foliage. Year after year, "Magnetic Spray" has been used by successful growers everywhere, and its use results in premium crops of extra fancy's that command top prices. "Magnetic Spray" is the purest wettable sulphur obtainable, consisting of 98.5% of the finest refined ventilated sulphur.

MAGNETIC SUPER-ADHESIVE DUSTING SULPHUR

When you buy a Dusting Sulphur, insist on "Magnetic" Super-Adhesive because it is effective, economical and always the same high quality. Pound for pound, "Magnetic" will give greater control and coverage than ordinary sulphurs.

NATIONAL SULPHUR COMPANY

2711 Graybar Bldg., New York, N. Y.

A Division of Stauffer Chemical Company

PROGRAM—(Continued)

WEDNESDAY MORNING, JANUARY 8th

9:30 a. m.

Pruning Peach Trees to Correct the Errors of Faulty Pruning

A. L. Schrader, Acting Head, Horticultural Department, University of Maryland, College Park, Maryland

10:30 a. m.

Eliminating Soil Erosion in the Orchard

John T. Bregger, Project Manager, Soil Conservation Service, U. S. Department of Agriculture, Waynesboro, Pa.

11:30 a. m.

The Distribution of Roots of Apple Trees Under Different Soil Conditions

L. P. Batjer, Assistant Horticulturist, Experiment Farm, Kearneysville, W. Va.

WEDNESDAY AFTERNOON PROGRAM ON PAGE 20

Annual Dinner Wednesday Evening—Get Your Tickets

NOTES

ROSY APHIS BUD MOTH SCAB

GET ALL THREE WITH ONE SPRAYING

It Is Not Necessary To Apply "Black Leaf 40" As a Separate Spray

Use "Black Leaf 40" with Lead Arsenate and Lime-Sulphur, in the "delayed dormant" spray. Saves time and labor costs. Recommendations by Federal and State Experiment Stations to provide ample assurance. Green aphis, red-bug and leaf-hopper are pests that dwarf and gnarl the crop. "Black Leaf 40" added to the standard calyx spray kills them—by contact and by fumes.

CODLING MOTH COVER SPRAYS

"Black Leaf 40" added to stomach poison sprays, especially at the brood peaks, improves control. Stomach poisons kill worms after they eat. "Black Leaf 40" kills them before they eat; hence reduces stings. And, a few stings make a cull.

"Black Leaf 40" with Summer-Oil stops codling moth. The combination is active—it kills adult moths, eggs and larvae by contact, fumes and vapors. Also exterminates green aphis, leaf-hopper, mites and crawling young scale.

"BLACK LEAF 40" IS SAFE. Not harmful to buds, foliage or fruit. Is not "dangerous" to use, either for man, horses or trees, because it "fumes-off" (evaporates). "Black Leaf 40" leaves no residue problem.

"Black Leaf 40"

Sold by Spray Material Dealers

TOBACCO BY-PRODUCTS & CHEMICAL CORP.

Incorporated

LOUISVILLE, KENTUCKY

THIS IS THE TIME TO BUY OR ORDER

UNIVERSAL

(ORANDA)

SPRAYING LIME

HIGH CALCIUM HIGH QUALITY

UNIVERSAL HYDRATED SPRAYING LIME is exceedingly fine (98% through 300 mesh screen). There are no coarse particles to prevent proper diffusion of the spraying or clog nozzles. Having less than 1% of magnesium oxide, there is little or no waste material or sediment.

UNIVERSAL SPRAYING LUMP AND PEBBLE LIMES are likewise very high in calcium content, clean and quick acting. They are particularly suited for use in lime sulphur and Bordeaux mixture.

CAN YOU GROW A LEGUME COVER CROP? The better cover crops need a sweet soil for best growth. Trees also require calcium in their development. We shall be glad to make complete tests of your soil. This is part of our service to the orchardist. Of course, there is no obligation.

Universal Gypsum & Lime Company

SALES OFFICE: York, Pennsylvania

PLANTS: Oranda, Virginia—York, Pennsylvania

Quickest, Surest, Cheapest Way to

Protect Your Trees

From Over-Wintering Pests

CENTRAL CHEMICAL CO. ESTABLISHED 1885 GRO-ALL SPRAYS BALTIMORE, MD.

PRODUCTS

Lime Sulphur Solution
Tarocide
Gro-All Oil Emulsion
Arsenate of Lead
Calcium Arsenate
Dry Lime Sulphur
Sulphur Dust Mixtures
Copper Dust Mixtures
Rotenone Dust
Kayso Dry Mix
Bordeaux Powder
Commercial Flour Sulphur
Superfine Sulphur (300 Mesh)
Black Leaf "40"
Paradichlorbenzene
Cresylic Acid
Carbon Bisulphide
Chemical Hydrated Lime
Bluestone
Monohydrated Copper Sulphate
Flotation Sulphur

TAROCIDE

The Original Tar Oil Emulsion

THOROUGHLY proved by years of use, and known throughout America for its effectiveness and dependability.

Apply Tarocide during the late Fall or winter months when other work is not pressing, and control perfectly the aphis eggs, scales, red mite, bud moth, and many other over-wintering pests found on your trees. These insects sap the vitality of your trees and the profits from your crop. You cannot raise a big crop of pests and a profitable crop of fancy fruit on the same trees.

Invigorate Your Orchard with Tarocide

CAN YOU BELIEVE IT?*

That the total spray material costs for a bushel of No. 1 apples is only 2 2/5c.

200.60 c.c. Lime Sulphur	3/5c
87.15 grams Lime	1/10c
21.79 grams Bluestone	1/5c
54.45 grams Lead Arsenate	1c
81.18 c.c. Tar Oil	1/2c
Total	2 2/5c

*From August issue of Virginia Fruit.

CENTRAL CHEMICAL COMPANY, Inc.

Baltimore Trust Building · Baltimore, Maryland

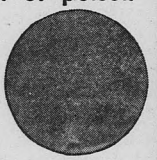
ONLY

Niagara SUSPENSO LEAD ARSENATE

GIVES YOU ALL 5 MAJOR VALUES

1 SMOOTH EFFECTIVE COVERAGE

● Your eye tells the entire story. SUSPENSO leaves no cracks, spaces or splotching. A film of poison evenly distributed.



(a) Niagara SUSPENSO Lead Arsenate.

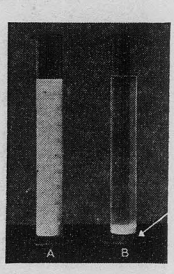
(b) An ordinary lead arsenate.

2 POSITIVE UNIFORM SUSPENSION

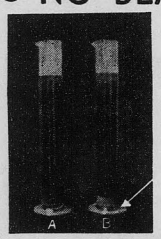
● The illustrations hold the proof. Both mixed with common tap water and allowed to stand 24 hours.

(a) Niagara SUSPENSO Lead Arsenate.

(b) An ordinary lead arsenate.



3 NO BLACK SLUDGE With LIME SULPHUR



● Both mixed with summer strength lime sulphur solution.

(a) Niagara SUSPENSO Lead Arsenate - note practically total absence of precipitate.

(b) An ordinary lead arsenate. Note heavy precipitate (sludge). Common tap water used in both and allowed to stand 1/2 hour.

4 MAXIMUM KILLING POWER

● Arsenic oxide content far above government requirements and guarantee.

5 SAFETY TO FRUIT and FOLIAGE

● Water soluble arsenic content far below guarantee.

Why not use the Best at no Higher Cost

WHEN YOU BUY Niagara YOU BUY PROTECTION

NIAGARA SPRAYER & CHEMICAL CO., INC.

MIDDLEPORT, NEW YORK

SAN FRANCISCO, CALIFORNIA . . . JACKSONVILLE, FLORIDA

CANADIAN ASSOCIATE . . . NIAGARA BRAND SPRAY CO., LTD. BURLINGTON, ONTARIO

Get PROTECTION this year without sacrificing NEXT YEAR'S FRUIT!

use KOLOFOG
FUSED BENTONITE-SULPHUR

1 Because **KOLOFOG** is toxic but not caustic - - it protects against diseases - - and allows the leaves to make big fruit and develope the buds - - YOUR NEXT YEAR'S APPLES.

2 Because **KOLOFOG** is colloidal, it mixes readily with water - - will not float on top or settle at the bottom of the spray tank - - thus assuring a uniform spray application over all fruit and foliage.

Ask for Complete Information

WHEN YOU BUY Niagara YOU BUY PROTECTION

NIAGARA SPRAYER & CHEMICAL CO., INC.
MIDDLEPORT, NEW YORK
SAN FRANCISCO, CALIFORNIA . . . JACKSONVILLE, FLORIDA
CANADIAN ASSOCIATE . . . NIAGARA BRAND SPRAY CO., LTD. BURLINGTON, ONTARIO

It has been well said that "spraying is the most important thing the grower does to produce quality fruit". That means dependable spray products—properly applied.

GRASSELLI Spray and Dust Materials are dependable because they are manufactured under definite chemical control. "GRASSELLI" on the insecticides you buy is your assurance of orchard protection. Furnished in a variety of convenient packages.

GRASSELLI

Arsenate of Lead *Bordeaux* *Calcium Arsenate*
*Dutox** *Sulphate of Nicotine*
Loro—a contact insecticide*
Manganar—and a complete line of dormant and summer oils.*

*(*Trade Mark Reg.)*

GRASSELLI

BUY BY THIS TRADE MARK

DU PONT

THE GRASSELLI CHEMICAL COMPANY
Founded 1839 Incorporated **Cleveland, Ohio**

VISIT THE EXHIBITS—ASK QUESTIONS

"SUNSET"
OILED APPLE WRAPS
For Boxed Apples

"SUNSET"
SHREDDED OIL PAPER
For Barrels, Hampers and Baskets

---

12 lb. Basis 18% Saturation, U. S. P. Oil

ODORLESS, TASTELESS AND PURE

PREVENTS AND CONTROLS SCALD

Insures your fruit and makes marketing early or late in good condition possible. Decorates your container and assures highest prices.

—SOLE DISTRIBUTOR—

Fred C. Strype

103 Lafayette Street **New York City**

STOCKS CARRIED IN ALL GROWING DISTRICTS

Insist upon the genuine—look for the label on the carton

PROGRAM—(Continued)

WEDNESDAY AFTERNOON, JANUARY 8

1:30 p. m.

How to Handle Cover Crops for Soil Improvement
Jackson B. Hester, Department of Soils, Virginia Truck Experiment Station, Norfolk, Va.

2:30 p. m.

Important Trends in English Fruit Production and Consumption
F. S. Howlett, Associate Horticulturist, Ohio Agricultural Experiment Station, Wooster, Ohio

3:30 p. m.

Disease Control with Milder Fungicides
W. C. Dutton, Associate Horticulturist, Michigan State College, East Lansing, Michigan

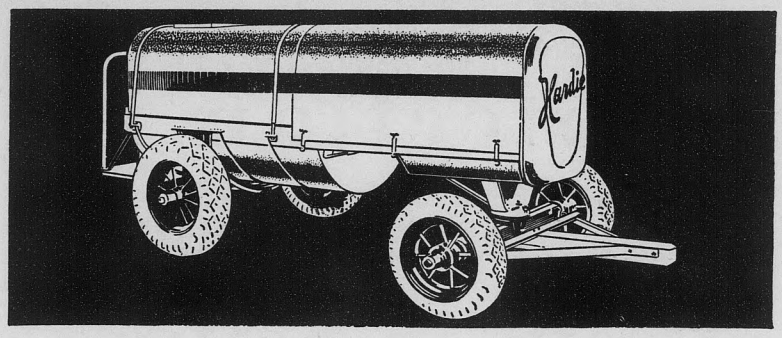
4:30 p. m.

Inspection of Exhibits

WEDNESDAY EVENING PROGRAM ON PAGE 24

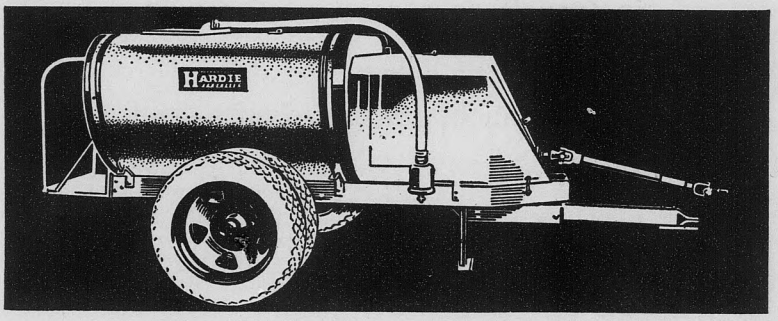
Annual Dinner Wednesday Evening—Get Your Tickets

NOTES



The most modern Sprayer built

● Really Streamlined ● Fully Armored and Dust Proofed ● Roller Bearings on All Wheels ● Interchangeable Wood or Steel Tanks ● All Moving Parts, Including Plungers, Running in a Bath of Filtered Oil ● Short-turn Trucks ● Rubber or Steel Wheels



Tractor trailers in many models

HARDIE sprayers put money into the grower's pocket by reducing spraying cost to the minimum per box or bushel of crop. The Hardie today provides thoroughness with speed and economy in spraying never before equalled. The streamlined Hardie moves easily through the orchard without damage to trees or fruit. Roller bearing trucks reduce pull approximately 50%, making it easy for team or tractor.

Hose men stand on a steel platform at the rear.

The pump efficiency of the Hardie—far greater than any other in the industry so far as present records show—delivers the spray at highest pressures and in ample volume to permit quick application with assurance of complete coverage.

Hardie pumps maintain rated pressure and capacity at normal operating speeds, avoiding strain and wear. The new Hardie valve with self-sealing seat and suspended cage is one of the greatest improvements ever engineered in the spray equipment industry. The Hardie branch in Hagerstown carries complete stocks of sprayers and parts at all times.

See the Hardies before you buy. Write for catalog showing 40 sizes and styles of portable and stationary Hardies powered by truck, tractor, gasoline engine or electric motor delivering 3 to 50 gallons per minute at 300 to 800 pounds pressure per square inch for every spraying job.

THE HARDIE MANUFACTURING COMPANY

Hagerstown, Md. **Hudson, Mich.**

HARDIE DEPENDABLE SPRAYERS

Protection in Shipping Means Profit in Selling

Don't take your loss from spoilage in transit as a matter of course. Look to your packages.

Marvil Packages for fruits and vegetables have gained a wide reputation for unequalled protection and resulting reduction in spoilage. Marvil Packages will economically meet your particular requirements.

•

"Marvil Products Protect Contents"

•

MARVIL PACKAGE CO.

LAUREL, DELAWARE

All the **Power** you need for Spraying the Tallest Trees with **Dependability** beyond Comparison ●

Nowadays you can get all the pressure and volume that you can use, in several makes of sprayers.

The big difference is in Reliability—and Low Cost of Operation.

● The "Friend" Sprayer has the simplest and most dependable pump ever built.

It has the fewest working parts, and the fewest bearings.

There is no wear on the cylinder walls—the cylinders need no lining. No cup leathers.

Packing is easiest to keep tight, and valves are easiest to keep clean.

There are many very good improvements in chassis designs.

Write for the "Friend" Catalog—and make your own comparisons.

"FRIEND" MFG. CO.
Gasport, N. Y.

"FRIEND" Sprayers

Find out which is the Most Reliable Sprayer on the Market"

Protection in Shipping Means Profit in Selling

Don't take your loss from spoilage in transit as a matter of course. Look to your packages.

Marvil Packages for fruits and vegetables have gained a wide reputation for unequalled protection and resulting reduction in spoilage. Marvil Packages will economically meet your particular requirements.

•

"Marvil Products Protect Contents"

•

MARVIL PACKAGE CO.

LAUREL, DELAWARE

All the **Power** you need for Spraying the Tallest Trees with **Dependability** beyond Comparison ●

Nowadays you can get all the pressure and volume that you can use, in several makes of sprayers.

The big difference is in Reliability—and Low Cost of Operation.

● The "Friend" Sprayer has the simplest and most dependable pump ever built.

It has the fewest working parts, and the fewest bearings.

There is no wear on the cylinder walls—the cylinders need no lining. No cup leathers.

Packing is easiest to keep tight, and valves are easiest to keep clean.

There are many very good improvements in chassis designs.

Write for the "Friend" Catalog—and make your own comparisons.

"FRIEND" MFG. CO.
Gasport, N. Y.

"FRIEND" Sprayers

Find out which is the Most Reliable Sprayer on the Market"

PROGRAM—(Continued)

WEDNESDAY EVENING, JANUARY 8th

ANNUAL DINNER
6:30 p. m.

Music

Entertainment

THURSDAY MORNING PROGRAM ON PAGE 26

NOTES

FOUNDED 1775 Harner SAND-GRAVEL LIME PRODUCTS

HYDRATED LIMES

Three Reliable Uniform Time-Tested Brands

"LIMOID" "MERION" "KNICKERBOCKER"
(Shipped in Standard Tight 50 lb. Paper Bags)

ORDER THEM BY NAME
For All Lime-Needy Crops

◆

USE "BELL-MINE" HYDRATED
WHEN "QUICK-LIME" IS SPECIFIED
FOR SPRAYS AND BORDEAUX MIXES

◆

WARNER COMPANY
WILMINGTON, DEL. **PHILADELPHIA, PA.**

FRUIT TREES

As Fine As They Can Grow

PEACH - APPLE - CHERRY - APRICOT

PEAR - PLUM - QUINCE

FINEST OF NORWAY MAPLE

HEDGE PLANTS - SHADE TREES

NUT TREES

RASPBERRIES - BLACKBERRIES

CURRANTS - GOOSEBERRIES

ASPARAGUS

Adams County Nursery & Fruit Farms

H. B. BAUGHER, Prop.

ASPERS, PENNA.

PROGRAM—(Continued)

THURSDAY MORNING, JANUARY 9th

9:30 a. m.

New Developments in Berry Culture

G. M. Darrow, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C.

10:15 a. m.

Ideas that May be of Benefit from Our Experiences

John Y. McDonald, President, West Virginia State Horticultural Society, Charles Town, W. Va.

C. Purcell McCue, President, Virginia State Horticultural Society, Greenwood, Va.

H. F. Hershey, President, Pennsylvania State Horticultural Association, Hamburg, Pa.

11:00 a. m.

Codling Moth and Its Control

H. N. Worthley, Associate Entomologist, Pennsylvania State College, Pennsylvania

11:30 a. m.

The Codling Moth in 1935 and 1936

E. N. Cory, State Entomologist, University of Maryland, College Park, Maryland

THURSDAY AFTERNOON PROGRAM ON PAGE 30

NOTES

F. A. READ, INC.

WINCHESTER, VA. ALBION, N. Y.

Manufacturers

CORRUGATED CAPS CUSHIONS

BASKET LINERS TREE BANDS

Shipments by Truck or Carload

PLANTERS MANUFACTURING CO., INC.

PORTSMOUTH, VIRGINIA

Manufacturers

FRUIT AND VEGETABLE PACKAGES

Warehouses in principal growing sections.

G. "MOSE" PARKINS

FACTORY REPRESENTATIVE FOR ABOVE FIRMS

MARTINSBURG, WEST VIRGINIA

Visit Our Exhibit at the Hagerstown, Maryland, Meeting

A 100%

INCREASE IN SALES

during 1935 is rather indicative of what a great many Growers think of our

FLOTATION SULPHUR

We are appreciative of their business.

At the same time we urge other Growrs to give serious thought to economical production by purchasing a proven product at low cost.

●

CAMDEN COKE COMPANY

of

PUBLIC SERVICE ELECTRIC & GAS CO.

CAMDEN, N. J.

HAGERSTOWN
Auto Parts
COMPANY

Distributor of Parts for All Cars

35 E. Washington Street

HAGERSTOWN, MARYLAND

Phones 2308-2309

PROGRAM—(Continued)

THURSDAY AFTERNOON, JANUARY 9th

1:30 p. m.

Present Status of the Rosy Aphis and Its Control
W. S. Hough, Entomologist,. Winchester Research Laboratory, Winchester, Va.

2:30 p. m.

The Use of Copper Sprays in the Apple Orchard
J. M. Hamilton, Research Associate, Hudson Valley Fruit Investigations Laboratory, Poughkeepsie, N. Y.

3:30 p. m.

The Use of Sulphur Sprays in the Apple Orchard
P. D. Peterson, Research Pathologist, Freeport Sulphur Company, New York, N. Y.

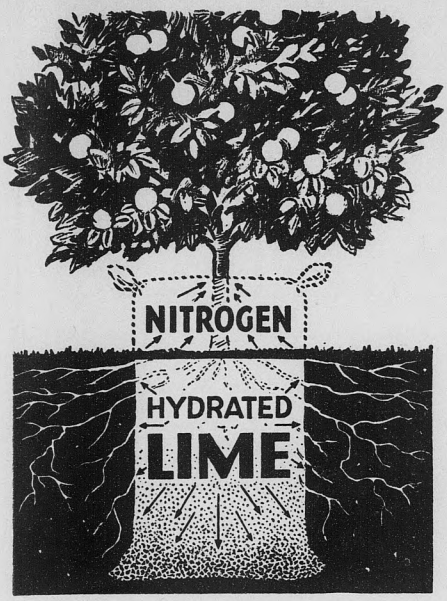
ADJOURNMENT

ANNUAL MEETING

Maryland Farm Bureau Federation
Maryland Agricultural Society
and
Affiliated Farm Organizations
Lord Baltimore Hotel
Balitmore

January 14, 15, 16, 1936

NOTES



'AERO' CYANAMID

70% HYDRATED LIME
21% NITROGEN

The Fruit Fertilizer

It FEEDS the Tree and LIMES the Soil

'AERO' CYANAMID

A non-leaching form of nitrogen
May be applied in fall, winter (in Southern States), or early spring, as one prefers

Feeds the tree throughout growing season
Produces dark green leaves and holds them on until fall (On sandy and shaly soils the supplemental use of potash is recommended)

Keeps the soil sweet and healthy
Destroys acids resulting from use of sprays and cover crops

Produces good terminal growth and fruit buds
Gives bigger yields of better-quality fruit

●

Write for Leaflet X-307, "Fertilizing Fruit with Granular 'Aero' Cyanamid"

AMERICAN CYANAMID COMPANY
Manufacturers of 'Aero' Cyanamid and 'Ammo-Phos'
30 ROCKEFELLER PLAZA 779 VIRGINIA AVE., N. E.
NEW YORK - - N. Y. ATLANTA - - - GA.

CYANAMID PRODUCTS

'Aero' Cyanamid is Nitrogen plus Lime

UNIFORM QUALITY
FIELD TESTED

SPRAY MATERIALS

YOUR profits from orchard and garden depend largely upon the effective control of insects and disease. For safety's sake, use Bowker Chemical Company spray and dust materials—recognized as the highest standard of quality since 1879. Special preparations for each purpose (for fruit, truck and potatoes) are prepared under the direction of skilled scientists and technical experts, carefully tested in the laboratory and in the field, and guaranteed to contain only the highest quality of ingredients. Your orders can be filled immediately at our modern factory, or at a warehouse near your farm.

- Arsenate of Lead
- Bean Beetle Powder
- Calcide (Calcium Arsenate)
- Copper Lime Dusts
- Derox (Rotenone Dust)
- Japanese Beetle Poison
- Liquid and Dry Lime Sulphur
- Monohydrated Copper Sulphate
- Powdered Bordeaux
- Powdered Bordeaux Arsenate
- Pyrox with Nicotine
- Pyrox without Nicotine
- Pyrox without Poison
- Spray Oils
- Sulphur Dusts
- 40% Nicotine Sulphate
- Potato Powders

BOWKER CHEMICAL CO.

50 Church St., New York, N. Y.

FACTORY: BALTIMORE, MD.

APPLE TREES NEED A BALANCED DIET

Official Evidence

Virginia:

"Those blocks in our experimental orchards that have received complete fertilizer for the past ten years are now outgrowing and outyielding other blocks. This is explained by the greater amount of organic matter produced and eventually added to the soil."

Pennsylvania:

"The value of nitrogen as the sole ingredient of an orchard fertilizer has been greatly overstressed. The plots which have received a complete fertilizer are obviously superior, in growth of cover crop or sod, in vigor of trees, and in yields, to plots which have received nitrogen only."

New Jersey:

"A complete fertilizer has always been recommended for tree fruits in New Jersey. For the past few years the Horticultural Department has recommended that in general apple growers consider as a basic fertilizer treatment, the annual use of 75 to 100 pounds of Muriate of Potash and 400 to 500 pounds of Superphosphate per acre, with the addition of nitrogen fertilizers according to the needs of the variety and the orchard."

When there is a deficiency of organic matter in your orchard soil, fruit spur and terminal growth is short, the bark becomes tight, the fruit does not size up, much of the fruit cracks in summer when dry spells are followed by rains, die-back or rosette appears on the terminals, more top and root injuries occur in winter and in many cases the addition of nitrogen fertilizers gives very little response.

Any rational system of orchard fertilization requires fertilization with all elements necessary to produce the best growth of cover crop. Except on soils of high natural fertility, potash and phosphoric acid to supplement the usual nitrogen application or a complete fertilizer high in potash and phosphorus are needed.

Fruit growers interested in growing better fruit by improved fertilizer practices are invited to write us for a copy of Reprint I-5, "Apple Trees Need A Balanced Diet."

American Potash Institute, Inc.

INVESTMENT BUILDING WASHINGTON, D. C.

UNIFORM QUALITY
FIELD TESTED

SPRAY MATERIALS

YOUR profits from orchard and garden depend largely upon the effective control of insects and disease. For safety's sake, use Bowker Chemical Company spray and dust materials—recognized as the highest standard of quality since 1879. Special preparations for each purpose (for fruit, truck and potatoes) are prepared under the direction of skilled scientists and technical experts, carefully tested in the laboratory and in the field, and guaranteed to contain only the highest quality of ingredients. Your orders can be filled immediately at our modern factory, or at a warehouse near your farm.

- Arsenate of Lead
- Bean Beetle Powder
- Calcide (Calcium Arsenate)
- Copper Lime Dusts
- Derox (Rotenone Dust)
- Japanese Beetle Poison
- Liquid and Dry Lime Sulphur
- Monohydrated Copper Sulphate
- Powdered Bordeaux
- Powdered Bordeaux Arsenate
- Pyrox with Nicotine
- Pyrox without Nicotine
- Pyrox without Poison
- Spray Oils
- Sulphur Dusts
- 40% Nicotine Sulphate
- Potato Powders

BOWKER CHEMICAL CO.

50 Church St., New York, N. Y.

FACTORY: BALTIMORE, MD.

APPLE TREES NEED A BALANCED DIET

Official Evidence

Virginia:

"Those blocks in our experimental orchards that have received complete fertilizer for the past ten years are now outgrowing and outyielding other blocks. This is explained by the greater amount of organic matter produced and eventually added to the soil."

Pennsylvania:

"The value of nitrogen as the sole ingredient of an orchard fertilizer has been greatly overstressed. The plots which have received a complete fertilizer are obviously superior, in growth of cover crop or sod, in vigor of trees, and in yields, to plots which have received nitrogen only."

New Jersey:

"A complete fertilizer has always been recommended for tree fruits in New Jersey. For the past few years the Horticultural Department has recommended that in general apple growers consider as a basic fertilizer treatment, the annual use of 75 to 100 pounds of Muriate of Potash and 400 to 500 pounds of Superphosphate per acre, with the addition of nitrogen fertilizers according to the needs of the variety and the orchard."

When there is a deficiency of organic matter in your orchard soil, fruit spur and terminal growth is short, the bark becomes tight, the fruit does not size up, much of the fruit cracks in summer when dry spells are followed by rains, die-back or rosette appears on the terminals, more top and root injuries occur in winter and in many cases the addition of nitrogen fertilizers gives very little response.

Any rational system of orchard fertilization requires fertilization with all elements necessary to produce the best growth of cover crop. Except on soils of high natural fertility, potash and phosphoric acid to supplement the usual nitrogen application or a complete fertilizer high in potash and phosphorus are needed.

Fruit growers interested in growing better fruit by improved fertilizer practices are invited to write us for a copy of Reprint I-5, "Apple Trees Need A Balanced Diet."

American Potash Institute, Inc.

INVESTMENT BUILDING WASHINGTON, D. C.

PRATT'S OIL SPRAYS

For Every Need . . .
For Every Purse

This means the HIGHEST VALUE regardless of price and the LOWEST PRICE consistent with quality.

• Scalecide

A truly remarkable spray that has not been successfully imitated in thirty years. "I do not know what there is in Scalecide to make it cost more than other sprays but I am willing to pay the difference in price as I have seen the difference in results" says one of the largest and most influential growers in New York state. A large Illinois grower writes: "Last year I sprayed one-half my orchard with "Blank" Oil, but the trees did not look as green and vigorous as where I used Scalecide." You will never know this difference until you try it.

• Spra-Cream

The lowest priced oil emulsion of equal quality, contains from 83% to 85% highly refined lubricating oil especially selected for high scale kill. It is not a pumped emulsion but ground with immense speed and pressure, making a beautiful, smooth, creamy emulsion that will not freeze. May be combined with lime sulfur or Pratt's Tar Oil Sprays—Spra-Cream is not a quick breaking oil, thus eliminating the danger of overspraying. It is one of the safest and best oil emulsions on the market today, regardless of cost.

• Tar-O-Wash 37-46

The latest word in tar oil sprays which have been developed by the Experiment Stations for the control of aphis eggs, scurfy and oyster shell scale in the dormant season. Tar-o-wash 37-46 contains 37% of specially selected creosote tar oils—that have proven to be of the greatest insecticidal value and from which the disagreeable and undesirable tar oils have been removed—combined with 46% of a highly refined lubricating oil and perfectly emulsified so that they will not separate or freeze. This is the proper proportion of tar and oil for severe cases of aphis, as well as San Jose scale and red mite control.

• Straitar

An 85% emulsion of specially selected creosote tar oil of greatest insecticidal value from which the disagreeable and undesirable tar oils have been removed (Tar oils vary greatly in composition, effectiveness and safety—Our Research Department has spent an enormous amount of time in arriving at the proper standard of creosote oil for Pratt's Tar Oil Sprays). Straitar is so concentrated that only 3 to 3½ gallons to the 100 is needed for severe cases of aphis, oyster shell and scurfy scale—not unpleasant to use—mixes with Scalecide or any good lubricating oil emulsion for San Jose scale and red mite control.

Please do not place your order without investigating thoroughly the prices and features of Pratt's Oil Sprays.

B. G. PRATT COMPANY
Department "F"
50 CHURCH STREET NEW YORK, N. Y.